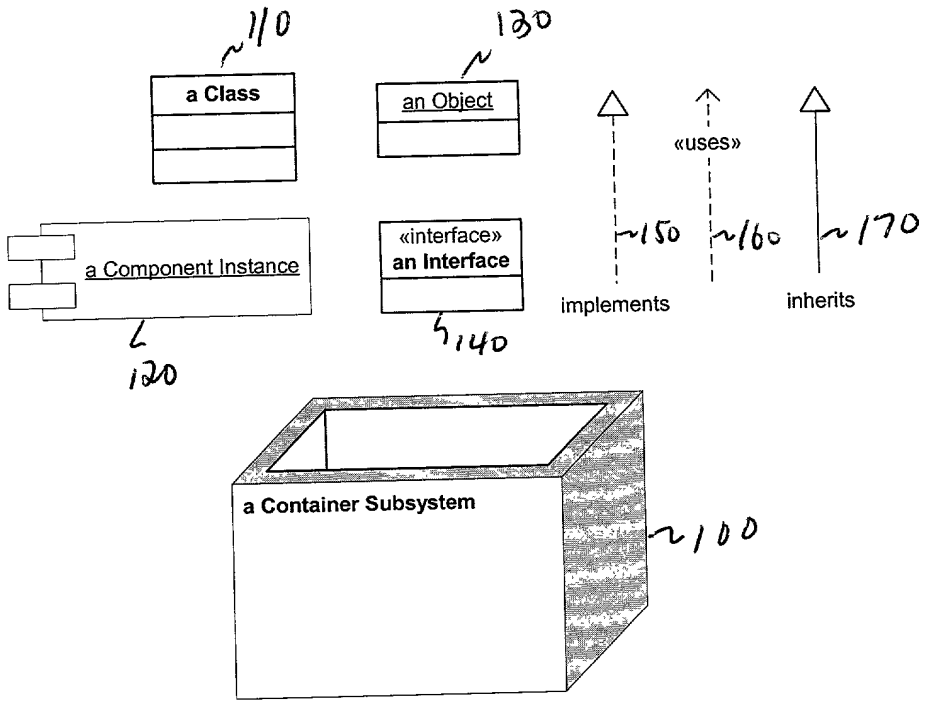
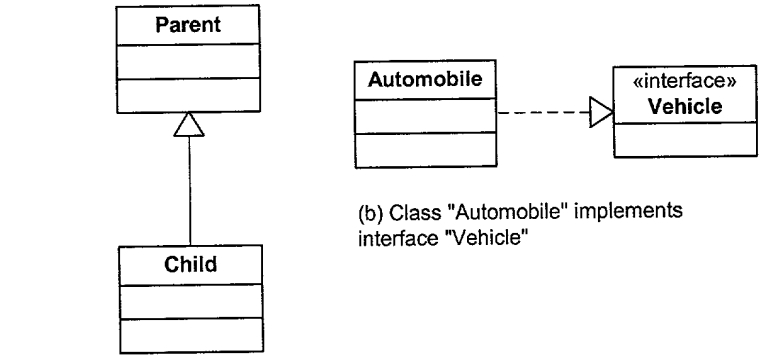
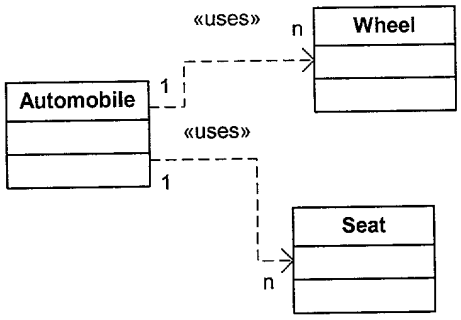

110
120
a Class
an Object
«uses»
a Component Instance
«interface»
an Interface
150
160
170
implements
inherits
120
140
a Container Subsystem
100

FIG. 1

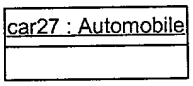


(a) Class "Child" inherits Class "Parent"

(b) Class "Automobile" implements interface "Vehicle"



(c) Class "Automobile" uses Classes "Wheel" and "Seat"



(d) car27 is an instance of Class "Automobile"

FIG. 2

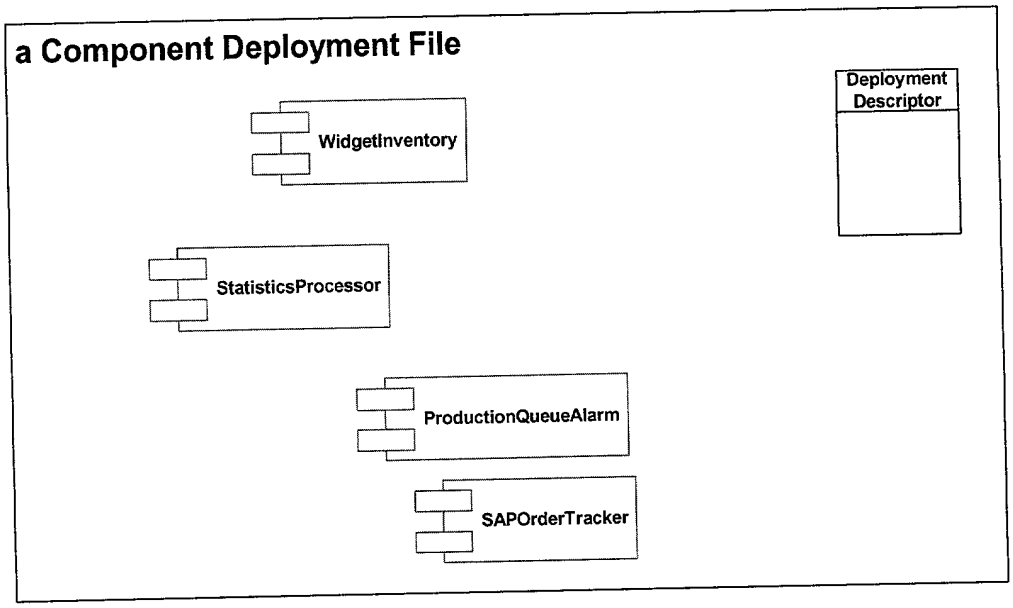

a Component Deployment File
Deployment Descriptor
WidgetInventory
StatisticsProcessor
ProductionQueueAlarm
SAPOrderTracker

FIG. 3

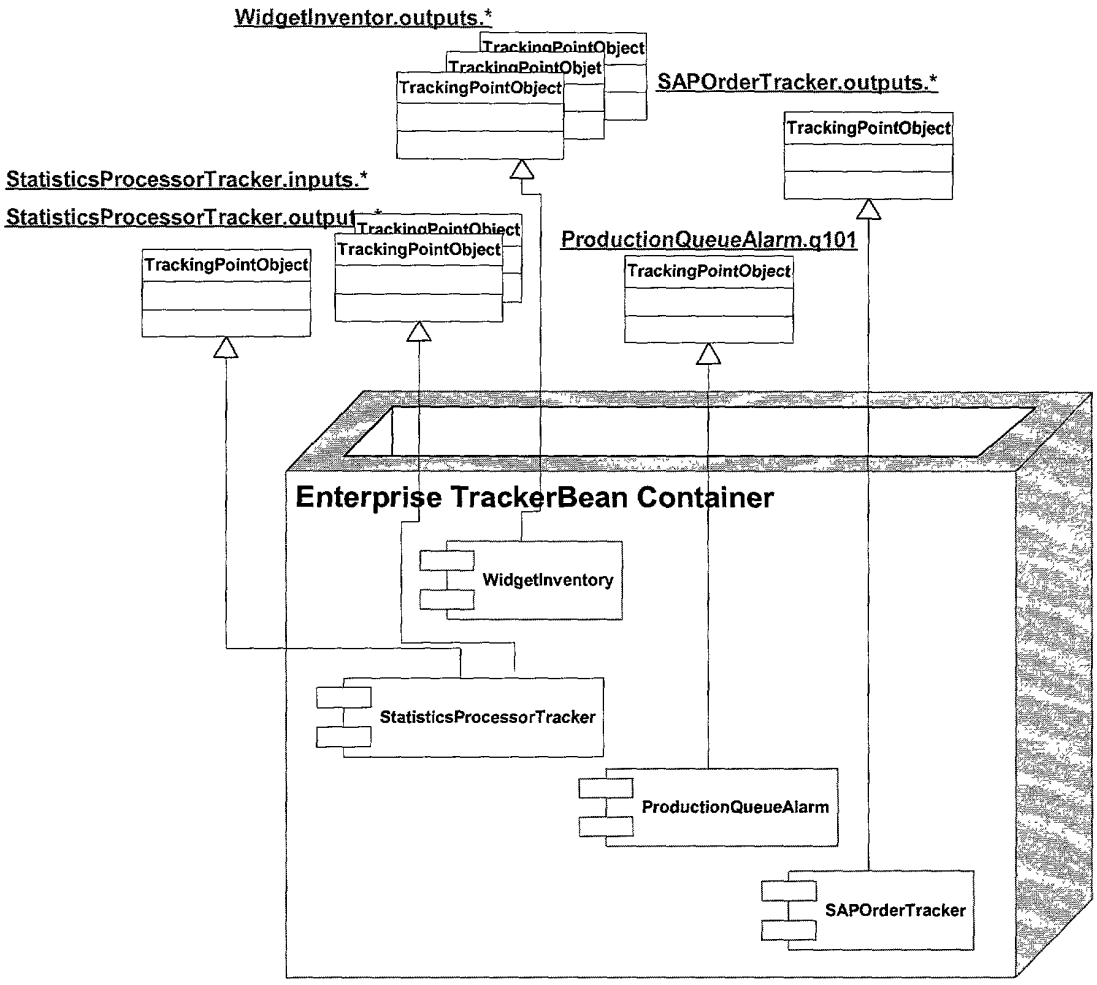
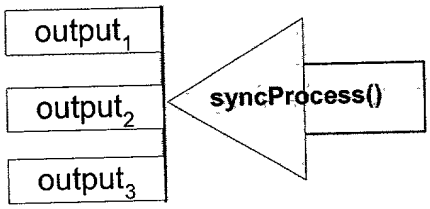
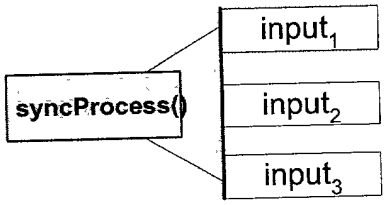

WidgetInventor.outputs.*
TrackingPointObject
SAPOrderTracker.outputs.*
TrackingPointObject
StatisticsProcessorTracker.inputs.*
StatisticsProcessorTracker.output.*
TrackingPointObject
ProductionQueueAlarm.q101
TrackingPointObject
TrackingPointObject
Enterprise TrackerBean Container
WidgetInventory
StatisticsProcessorTracker
ProductionQueueAlarm
SAPOrderTracker

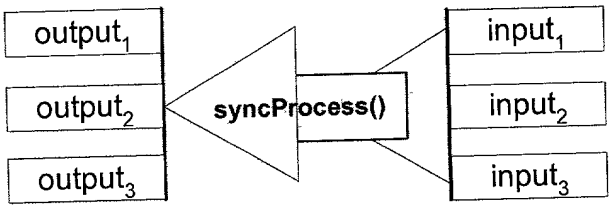
FIG. 4



(a) TrackerBean with outputs only



(b) TrackerBean with inputs only



(c) TrackerBean with inputs and outputs

FIG. 5

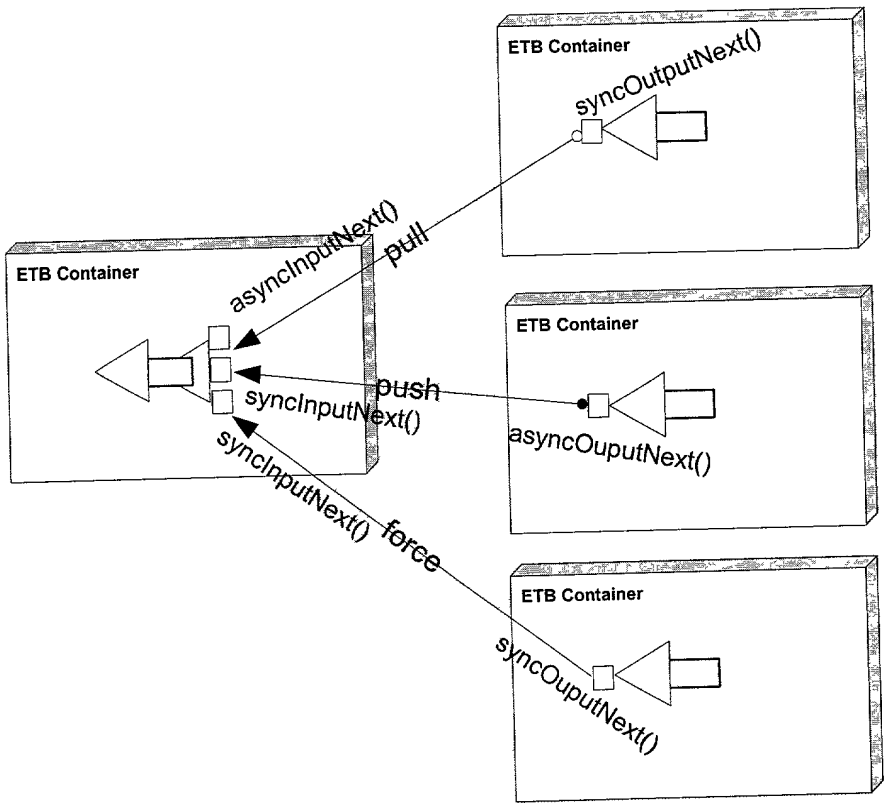

ETB Container
syncOutputNext()
ETB Container
asyncInputNext()
pull
ETB Container
push
syncInputNext()
asyncOuputNext()
syncInputNext()
force
ETB Container
syncOuputNext()

FIG. 6

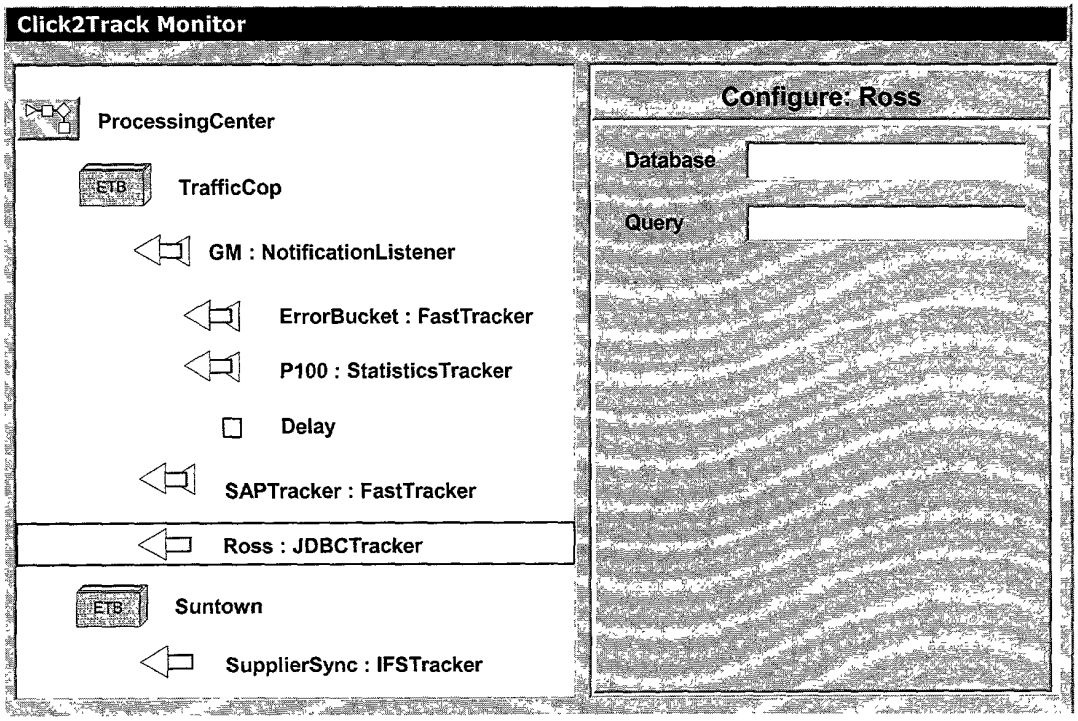

Click2Track Monitor
ProcessingCenter
ETB
TrafficCop
GM : NotificationListener
ErrorBucket : FastTracker
P100 : StatisticsTracker
Delay
SAPTracker : FastTracker
Ross : JDBCTracker
ETB
Suntown
SupplierSync : IFSTracker
Configure: Ross
Database
Query

FIG. 7

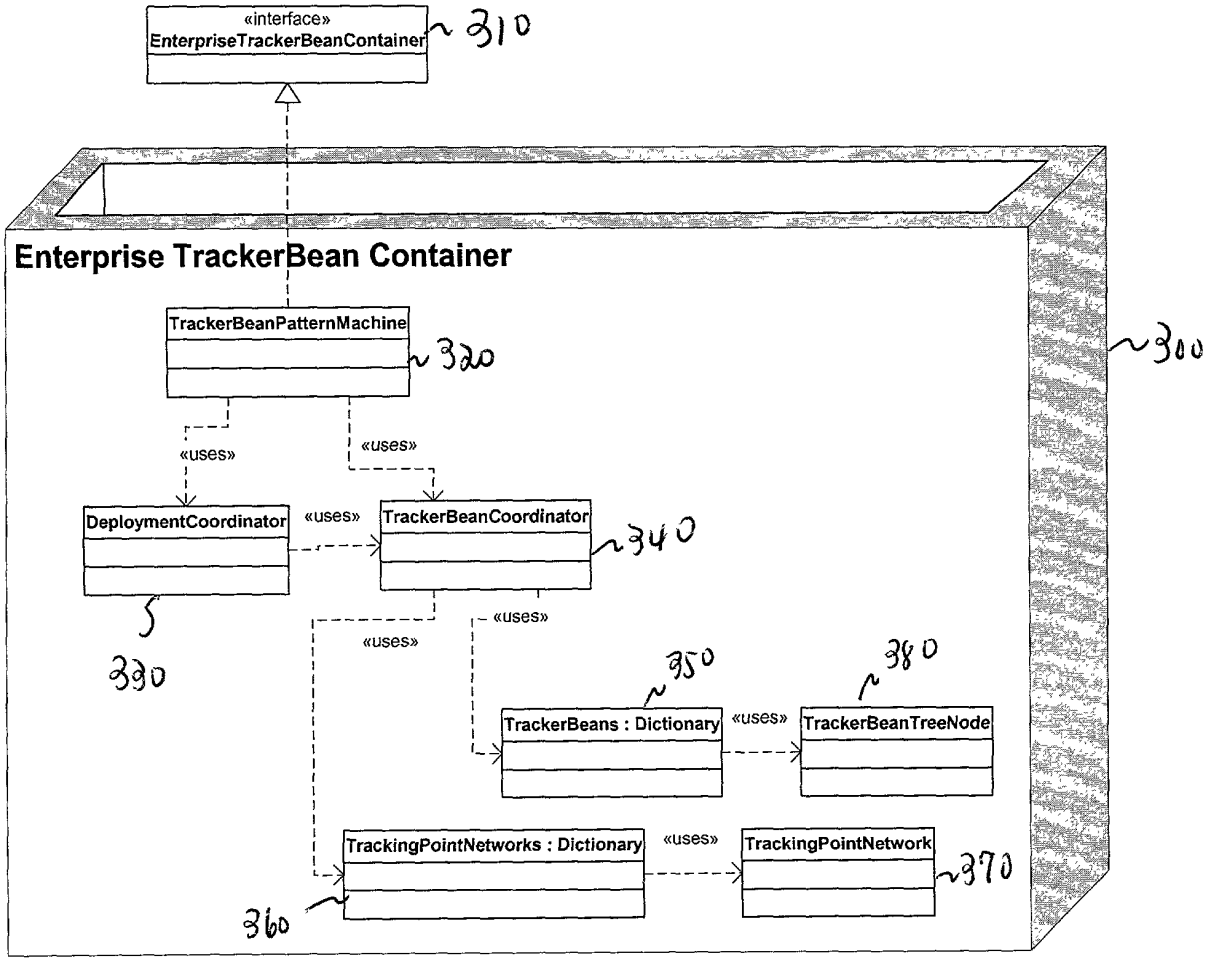

«interface»
EnterpriseTrackerBeanContainer
310
Enterprise TrackerBean Container
TrackerBeanPatternMachine
320
300
«uses»
«uses»
DeploymentCoordinator
«uses»
TrackerBeanCoordinator
340
330
«uses»
«uses»
350
380
TrackerBeans : Dictionary
«uses»
TrackerBeanTreeNode
TrackingPointNetworks : Dictionary
«uses»
TrackingPointNetwork
370
360

FIG. 8

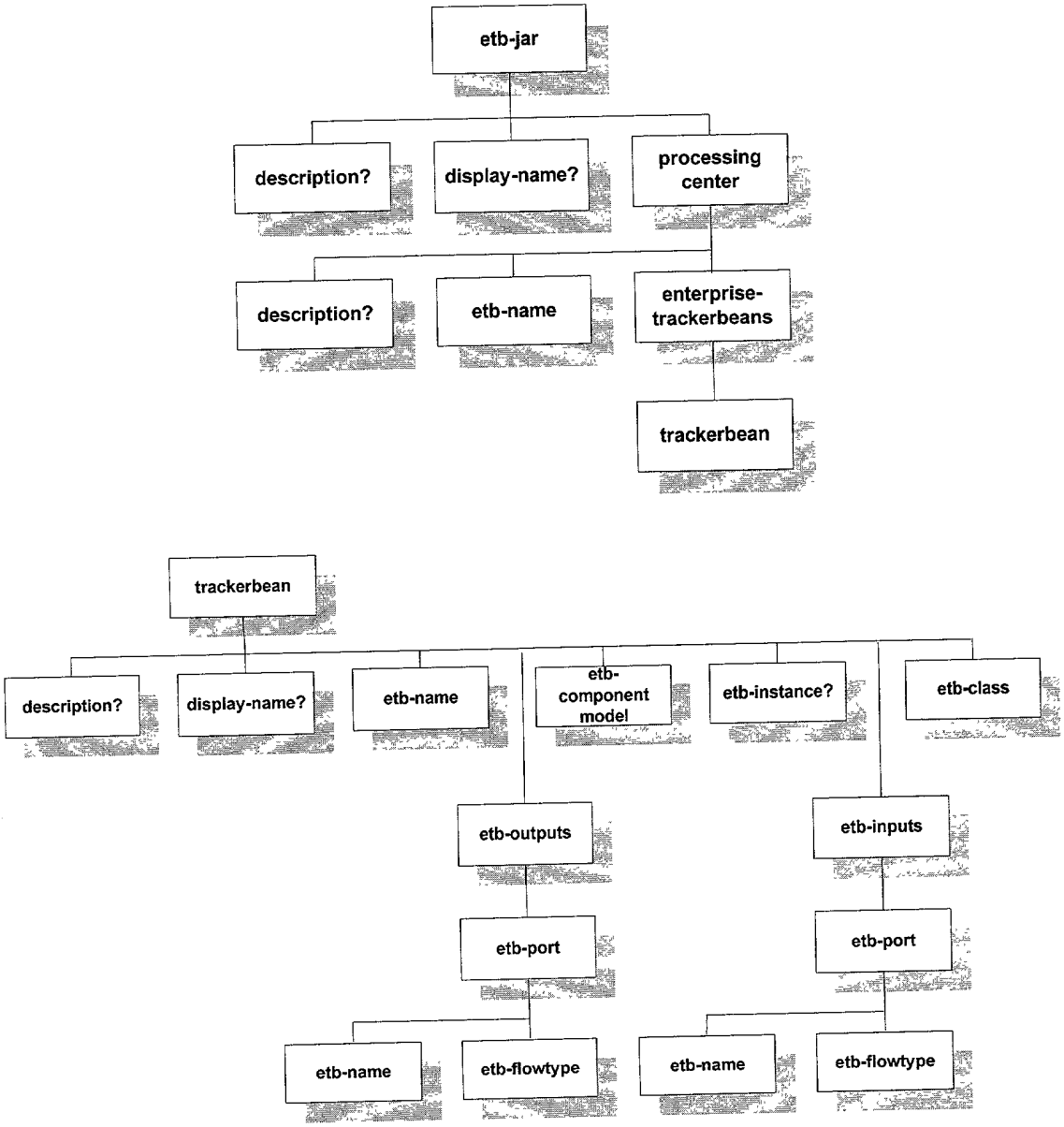
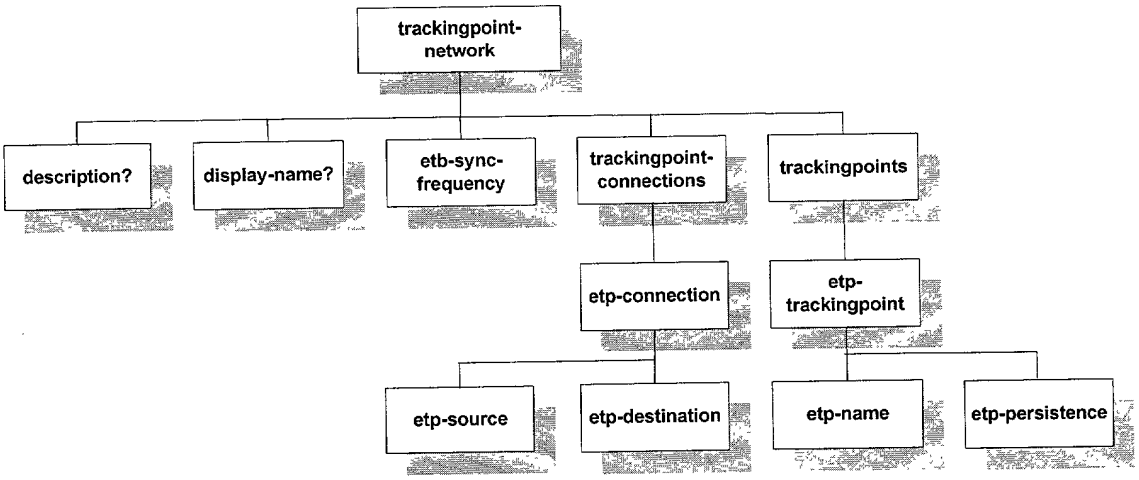

etb-jar
description?
display-name?
processing center
description?
etb-name
enterprise-trackerbeans
trackerbean
trackerbean
description?
display-name?
etb-name
etb-component model
etb-instance?
etb-class
etb-outputs
etb-inputs
etb-port
etb-port
etb-name
etb-flowtype
etb-name
etb-flowtype

FIG. 9



The structure of the tracking point network deployment descriptor.
FIG. 10

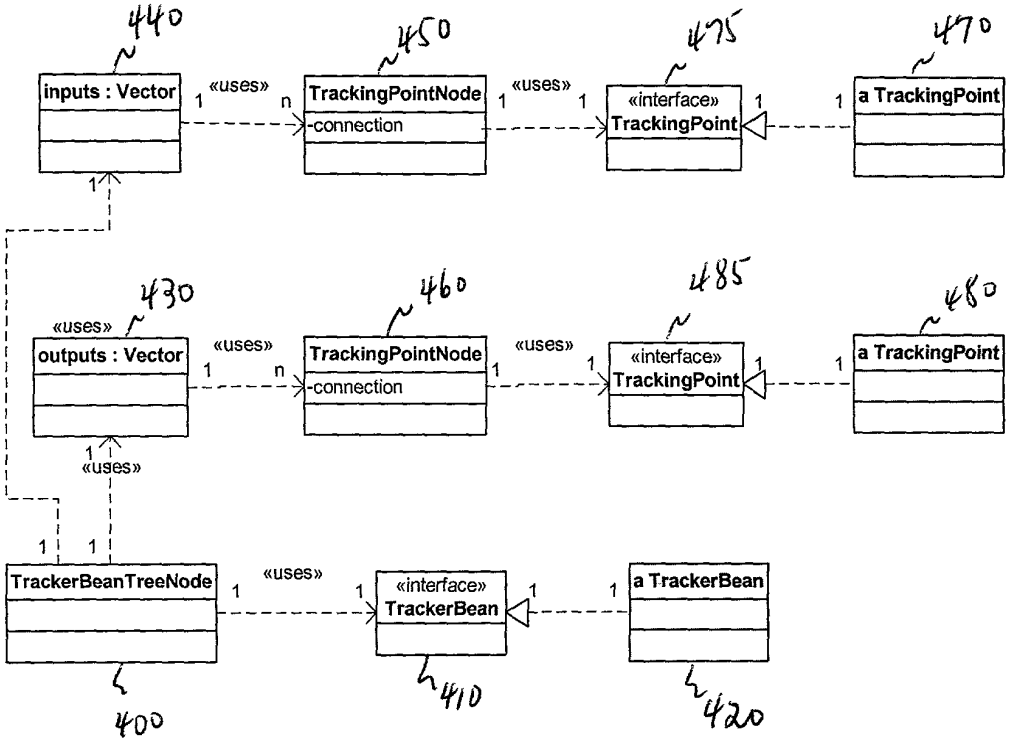

440
450
475
470
inputs : Vector
«uses»
TrackingPointNode
-connection
«uses»
«interface»
TrackingPoint
a TrackingPoint
430
460
485
480
«uses»
outputs : Vector
«uses»
TrackingPointNode
-connection
«uses»
«interface»
TrackingPoint
a TrackingPoint
«uses»
TrackerBeanTreeNode
«uses»
«interface»
TrackerBean
a TrackerBean
400
410
420

FIG. 11

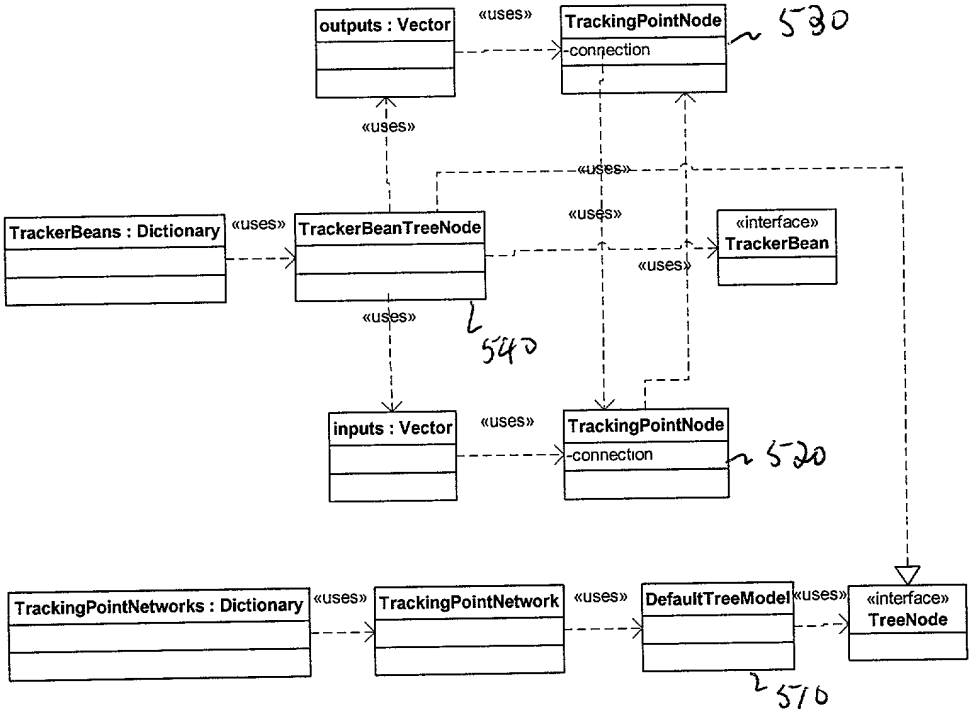

outputs : Vector
«uses»
TrackingPointNode
-connection
530
«uses»
«uses»
TrackerBeans : Dictionary
«uses»
TrackerBeanTreeNode
«uses»
«interface»
TrackerBean
«uses»
«uses»
540
inputs : Vector
«uses»
TrackingPointNode
-connection
520
TrackingPointNetworks : Dictionary
«uses»
TrackingPointNetwork
«uses»
DefaultTreeModel
«uses»
«interface»
TreeNode
510

FIG. 12